Dredge Sugar Island Project Name/Location:

Project Name/Location: Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - RM 95+00-104+20.

Date: 12/01/2005

Disposal	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number	DSP-1	20.5	7:47:13	7622667.58	735757.40	1.3	
1461	DSP-2	21.0	8:06:15	7622755.49	735396.25	11.6	14.1
<u>Tidal Stage</u>	DSP-2R1	21.6	8:06:18	7622755.66	735402.33	11.3	14.1
Ebb	DSP-3	21.4	8:07:48	7622906.85	735429.08	1.0	
Dredge State:	DSP-4	20.5	8:09:38	7622430.82	736385.86	11.8	
Split Hull	DSP-4R1	20.3	8:09:41	7622427.18	736392.89	11.4	
Weather:							
Overcast							
<u>Wind:</u>							
0-5 kts							
<u>Seas:</u>							
0-1'							
Disposal location							
Columbia River RM 101							

Remarks:	Action Taken:
DSP-2 exceeded 10% over background, taken in the plume.	Re-test DSP-2R1 was taken.
DSP-4 exceeded 10% over background, taken in the plume.	Re-test DSP-4R1 was taken.
DSP-3 taken out of plume on port side.	
	The disposal ended and the dredge moved away from the area.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DSP-1	Background - 100' Up Current, Within 600-Foot of Channel		
DSP-2	100' Down Current	OR	OR, WA
DSP-3	150' Radially from point of dredge (Port or Starboard)	WA	Not Required
DSP-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Dredge Sugar Island Project Name/Location:

Project Name/Location: Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - RM 95+00-104+20.

Date: 12/01/2005

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
<u>Load Number</u>	DR-1	20.6	8:44:54	7624985.30	762673.28	1.2	
1462	DR-2	20.8	8:47:35	7624762.24	762004.69	13.7	13.2
Tidal Stage	DR-2R1	21.2	8:47:38	7624762.24	762004.69	11.3	13.5
Ebb	DR-4	19.8	8:48:57	7624700.98	761641.63	13.3	
Dredge State:	DR-4R1	20.1	8:49:00	7624700.98	761641.63	12.8	
Overflow through skimmers only	DR-3	20.4	8:51:03	7625392.81	763087.45	13.5	
Overnow unlought skilliners only	DR-3R1	21.1	8:51:06	7625397.23	763093.40	13.0	
Weather:							
Overcast							
<u>Wind:</u>							
0-5 kts							
<u>Seas:</u>							
0-1'							
Disposal location							
Columbia River RM 101							

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 exceeded 10% over background, taken out of plume	Re-test DR-3R1 was taken.
on starboard side.	The dredge moved away from the area while continuing dredging to avoid
	further increasing the turbidity at the location where the exceedence was
	measured. The dredge coordinates were marked on the GPS screen to
	insure no further dredging occurred at the location where the exceedence
	was measured.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Dredge Sugar Island Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - RM 95+00-104+20.

Date: 12/01/2005

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
<u>Load Number</u>	DR-1	20.5	15:37:34	7624632.92	761947.52	2.2	
1463	DR-2	20.6	15:38:51	7624957.40	762436.96	8.2	13.5
<u>Tidal Stage</u>	DR-2R1	20.7	15:38:54	7624957.57	762443.03	5.9	13.6
Ebb	DR-4	18.5	15:40:16	7624947.02	762674.35	12.5	
Dredge State:	DR-4R1	19.0	15:40:19	7624951.44	762680.30	12.2	
Overflow through skimmers only	DR-3	21.0	15:42:22	7624393.33	761297.63	2.8	
Overnow unlough skinniners only	DR-3R1	21.0	15:42:25	7624393.33	761297.63	3.1	
Weather:							
Overcast							
<u>Wind:</u>							
0-5 kts							
<u>Seas:</u>							
0-1'							
Disposal location							
Columbia River RM 101							

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 exceeded 10% over background, taken out of plume	Re-test DR-3R1 was taken.
on starboard side.	The dredge moved away from the area while continuing dredging to avoid
	further increasing the turbidity at the location where the exceedence was
	measured. The dredge coordinates were marked on the GPS screen to
	insure no further dredging occurred at the location where the exceedence
	was measured.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Project Name/Lo	Contract Nu	mber: W9127N-06-	C-CRCI				
Columbia River Channel Imp Date: 12/01		0 to 100+40					
Dredge Dredge	Sample Point	Depth (ft)	Time	X-Coordinate	Y-Coordinate	Turbidity (NTU)	DO (Mg/L)
OREGON	DRP-1 (21)	20.4	7:22:23	7623083.577	734472.582	4.8	NA NA
	DRP-2 (22)	19.5	7:27:51	7622932.415	734864.931	4.0	11.5
Tidal Stage	DRP-3 (23)	20.3	7:31:24	7622842.238	735051.303	3.7	NA
Ebb	DRP-4 (24)	20.2	7:38:47	7623075.007	734869.322	3.9	NA
Weather:	Retest @ point	of exceedan	се				
Overcast, Light rain							
Wind:							
0-5 kts							
Seas:							
0-1'							
Disposal location							
Gateway (upland)	All coordinates a	are Oregon Si	ate Plane No	orth 3601; Datum: NAI) 83		
Remarks:				Action Taken:			
No exceedances.				None required.			
John Cannon present d	uring sampling.						
Operation as interested and	:						
Sample point numbers		rrespona with					
YSI 650 MDS logged da Sample Point Key	All Tests Cond	uotod With V	SI SENO			Turbidity Compliance	DO Compliance
DRP-1				Foot of Channel		N/A	•
DRP-1	100' Down Curre			-root of Channel		OR	Not Required OR, WA
DRP-2 DRP-3	300' Down Curre					WA	,
				, o o r d \			Not Required
DRP-4	150' lateral of th					WA	Not Required
DRPT	Indicates addition	mai testing at	the point of e	exceedence			
Dv	Indicates a D = 3	Toot whoma ()	io the De Te	ot number for that	tioular point		
Rx	indicates a Re-	est where (X)	is the Re-Te	est number for that par	ticular point		

Project Name/Lo Columbia River Channel Imp	Contract Nu	mber: W9127N-06-	C-CRCI						
Date: 12/01	Sample Point	Depth (ft)	Time	X-Coordinate	Y-Coordinate	Turbidity (NTU)	DO (Mg/L)		
<u>Dredge</u>	DSPP-1 (11)	20.2	7:44:35	7623817.586	735528.8	3.7	NA		
Oregon	DSPP-2 (12)	20.3	7:47:24	7623803.325	735786.723	NA	11.5		
Tidal Stage	DSPP-3 (13)	20.3	7:50:46	7623523.848	736191.053	4.5	NA		
Ebb									
Weather:									
Overcast, Light rain	Retest @ point	Retest @ point of exceedance							
<u>Wind:</u>									
0-5 kts									
<u>Seas:</u>									
0-1'									
<u>Disposal location</u>	A.II	0 0	-t- Di Ni	al 0004 Dat as NAT					
Gateway (Upland)	All coordinates	are Oregon St	ate Plane No	orth 3601; Datum: NAD	0 83				
Remarks:				Action Taken:					
No exceedances.	lurin a samanlin a			None required.					
John Cannon present d Turbidity 0.8 over back									
Turbidity 0.6 over backt	grouna.								
Sample point numbers	in narenthesis co	rrespond with							
YSI 650 MDS logged da		neepena wan							
Sample Point Key	All Tests Cond	ucted With Y	SI 6600			Turbidity Compliance	DO Compliance		
DSPP-1	100' up current			hannel		N/A	N/A		
DSPP-2	100' down curre	, ,		-		Not Required	WA		
DSPP-3	600' down curre			arge		WÁ	Not Required		
DSPPT	Indicates addition	onal testing at	the point of e	exceedence			,		
Rx	Indicates a Re-	Test where (x)	is the Re-Te	est number for that par	ticular point				

Project Name/Lo Columbia River Channel Imp	Contract Nu	Number: W9127N-06-C-CRCI							
Date: 12/01		(6.)							
	Sample Point	. ,	Time	X-Coordinate	Y-Coordinate	Turbidity (NTU)	DO (Mg/L)		
<u>Dredge</u>	DSPP-1 (11)	20.1	9:22:07	7623863.056	735554.154	4.0	NA		
Oregon	DSPP-2 (12)	20.1	9:25:43	7623775.438	735768.172	NA	11.4		
<u>Tidal Stage</u> Ebb	DSPP-3 (13)	20.2	9:33:42	7623521.242	736161.945	5.6	NA		
<u>Weather:</u> Overcast, Light rain	Retest @ point	of exceedan	ce				1		
Wind:	полост о роши	<u> </u>					1		
0-5 kts									
Seas:									
0-1'									
Disposal location									
Gateway (Upland)	All coordinates	are Oregon St	tate Plane No	rth 3601; Datum: NAD	83				
Remarks:		_		Action Taken:					
No exceedances.				None required					
Turbidity 1.6 over back	ground.			·					
Sample point numbers	in paranthasis sa	rrocpond with							
YSI 650 MDS logged da		rrespond with							
	All Tests Cond	ucted With Y	SI 6600			Turbidity Compliance	DO Compliance		
DSPP-1	100' up current			nannel		N/A	N/A		
DSPP-2	100' down curre					Not Required	WA		
DSPP-3	600' down curre			arge		WA	Not Required		
DSPPT	Indicates addition						2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	•		•						
Rx	Indicates a Re-	Test where (x)	is the Re-Te	st number for that par	ticular point				

Project Name/L	ocation:				Contract Nu	ımber: W9127N-06-	C-CRCI		
Columbia River Channel Imp	rovement, RM 101+1	0 to 100+40							
Date: 12/01	/2005								
	Sample Point	Depth (ft)	Time	X-Coordinate	Y-Coordinate	Turbidity (NTU)	DO (Mg/L)		
<u>Dredge</u>	DSPP-1 (11)	20.3	11:21:46	7623861.379	735558.213	4.2	NA		
Oregon	DSPP-2 (12)	20.2	11:25:00	7623816.758	735782.335	NA	11.4		
<u>Tidal Stage</u> Ebb	DSPP-3 (13)	19.9	11:27:49	7623521.824	736182.72	4.1	NA		
Weather:									
Overcast, Light rain	Retest @ point of exceedance								
Wind:									
0-5 kts									
Seas:									
0-1'									
Disposal location									
Gateway (Upland)	All coordinates	are Oregon S	tate Plane No	rth 3601; Datum: NAD	D 83				
Remarks:				Action Taken:					
No exceedances.				None required.					
							_		
Sample point numbers		rrespond with	1						
YSI 650 MDS logged d		1 1 1 1 1 1 1 1	(01 0000				T =		
Sample Point Key	All Tests Cond			·		Turbidity Compliance	DO Compliance		
DSPP-1	100' up current (background) within 600' channel					N/A	N/A		
DSPP-2	100' down current from the discharge					Not Required	WA		
DSPP-3	600' down current, 150' lateral to the discharge Indicates additional testing at the point of exceedence					WA	Not Required		
DSPPT	Indicates addition	nal testing at	the point of e	xceedence					
	T =		= -						
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point								

Project Name/L	ocation:				Contract Nu	mber: W9127N-06-	C-CRCI		
Columbia River Channel Imp	rovement, RM 101+1	0 to 100+40							
Date: 12/01	/2005								
	Sample Point	Depth (ft)	Time	X-Coordinate	Y-Coordinate	Turbidity (NTU)	DO (Mg/L)		
<u>Dredge</u>	DSPP-1 (11)	20.0	13:23:23	7623819.906	735538.583	3.8	NA		
Oregon	DSPP-2 (12)	20.3	13:27:33	7623802.621	735761.574	NA	11.5		
<u>Tidal Stage</u> Ebb	DSPP-3 (13)	20.1	13:31:03	7623494.642	736189.318	4.7	NA		
Weather:									
Overcast, Light rain	Retest @ point of exceedance								
Wind:							•		
0-5 kts									
<u>Seas:</u>									
0-1'									
Disposal location									
Gateway (Upland)	All coordinates	are Oregon S	tate Plane No	rth 3601; Datum: NAD	83				
Remarks:				Action Taken:					
No exceedances.				None required.					
Sample point numbers		rrespond with	1						
YSI 650 MDS logged d		1 1 1 1 1 1 1 1	(01 0000				T =		
Sample Point Key	All Tests Cond					Turbidity Compliance	DO Compliance		
DSPP-1	100' up current (background) within 600' channel					N/A	N/A		
DSPP-2	100' down current from the discharge					Not Required	WA		
DSPP-3	600' down current, 150' lateral to the discharge Indicates additional testing at the point of exceedence					WA	Not Required		
DSPPT	Indicates addition	nal testing at	the point of e	xceedence					
	T =		= -						
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point								

Project Name/Location: Contract N Columbia River Channel Improvement, RM 101+10 to 100+40 Date: 12/01/2005					Contract Nu	Number: W9127N-06-C-CRCI		
Date. 12/01	Sample Point	Depth (ft)	Time	X-Coordinate	Y-Coordinate	Turbidity (NTU)	DO (Mg/L)	
<u>Dredge</u>	DSPP-1 (11)	20.0	15:21:05	7623831.325	735535.345	4.6	NA NA	
Oregon	DSPP-2 (12)	20.0	15:25:14	7623784.445	735742.751	NA	11.5	
<u>Tidal Stage</u> Slack	DSPP-3 (13)	19.8	15:28:51	7623508.146	736187.48	3.9	NA	
Weather: Overcast, Light rain	Retest @ point	of exceedan	ice				I	
Wind:	rotoot © point	or oxocoun.						
0-5 Kts								
Seas:								
0-1'								
Disposal location								
Gateway (Upland)	All coordinates	are Oregon S	tate Plane No	orth 3601; Datum: NAD	D 83			
Remarks:			Action Taken:					
No exceedances.				None required.				
Sample point numbers	in naranthasis sa	rroop and with		+				
YSI 650 MDS logged da		rrespond with						
Sample Point Key	All Tests Cond	ucted With Y	'SI 6600			Turbidity Compliance	DO Compliance	
DSPP-1				nannel		N/A	N/A	
DSPP-2	100' up current (background) within 600' channel 100' down current from the discharge					Not Required	WA	
DSPP-3	600' down current, 150' lateral to the discharge					WA	Not Required	
DSPPT	Indicates additional testing at the point of exceedence						1131110401100	
		3						
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point							